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1 Experiences with IDEs and Java teaching: what works and what doesn't

Keitha A. Murray, Jesse M. Heines, Michael Kölling, Tom Moore, Paul J. Wagner,
June 2003 ACM SIGCSE Bulletin , Proceedings of the 8th annual conference on In
science education, Volume 35 Issue 3

Full text available: pdf(139.33 KB)

Additional Information: full citation, abstract,

The environment chosen to teach Java can have a profound effect on students. Panelists will report on their experiences using different Java Interactive Deve Java and what they identify as the strengths and weaknesses of each IDE. I important features of the IDEs and related teaching pedagogies to address "w teaching Java.

Keywords: IDEs, Java, pedagogy, programming environments

2 Teaching a Java-based CS1 course in an academically-diverse environme

James Comer, Robert Roggio

February 2002 ACM SIGCSE Bulletin , Proceedings of the 33rd SIGCSE technical sy
education, Volume 34 Issue 1


Full text available: pdf(479.12 KB)

Additional Information: full citation, abstract, refe

The Texas Christian University (TCU) Computer Science Department was esta Department's CS1 course has presented significant teaching challenges due to the class. Traditionally, only 25-35% of the students enrolled in the course ar remaining being students from a wide diversity of disciplines, many of which i diversity, it has been necessary for the course, a ...

3 Objects first - does it work?

Frances Bailie, Mary Courtney, Keitha Murray, Robert Schiaffino, Sylvester Tuoh
December 2003 The Journal of Computing in Small Colleges, Volume 19 Is

Full text available:  pdf(16.58 KB)

Additional Information: full citation, abstract, in


Many colleges and universities have switched to Java as the language in CS1 and Java in particular, fosters an "objects first" approach that starts with class introduces basic programming constructs such as conditionals and loops as ne methodology is foreign to those who have been teaching introductory program seems to work for students who have no pri ...

4 A professional practice component in writing: a simple way to enhance an e

Karen Anewalt

February 2003

The Journal of Computing in Small Colleges, Volume 18 Issu

Full text available:  pdf(49.08 KB)

Additional Information: full citation, abstract, reference:



The annual survey conducted in 2001 by the National Association of Colleges rank good communication skills (both written and oral) as the most desirable employment [7]. The recently published 2001 ACM/IEEE Computing Curricula demands by stressing the importance of incorporating "professional practice" focusing on written communication skills, in the undergraduate cur ...

5 Technical papers: software understanding: Hipikat: recommending pertiner

Davor ?ubrani?, Gail C. Murphy

May 2003

Proceedings of the 25th international conference on Software engir

Full text available:  pdf(1.19 MB)  Publisher Site

Additional Information: full cita

A newcomer to a software project must typically come up-to-speed on a large project before becoming productive. Assimilating this information in the open-newcomer cannot rely on the mentoring approach that is commonly used in tr help a newcomer to an open-source project become productive faster, we proj implicit group memory from the information stored ...

6 API documentation from source code comments: a case study of Javadoc

Douglas Kramer

October 1999

Proceedings of the 17th annual international conference on Comp

Full text available:  pdf(866.34 KB)

Additional Information: full citation, abstract, references,

This paper describes in a general way the process we went through to determ content and style for writing comments in source code for the Java platform a Microsystems. This includes how the documentation comments evolved to bec specification, and the guidelines we developed to make it practical for this doc source code.

Keywords: API documentation, Java platform, Javadoc, doc comments, doclets: documentation, source code comments

- 7 JERPA: a distance-learning environment for introductory Java programming**
David Emory, Roberto Tamassia
February 2002 ACM SIGCSE Bulletin , Proceedings of the 33rd SIGCSE technical symposium on computer science education, Volume 34 Issue 1
Full text available:  pdf(627.05 KB) Additional Information: full citation, abstract, references
This paper describes a Java-based distance-education tool, called the Environment for Java Assignments in Java (JERPA), for use in computer science courses with Java. It reduces the demand on the university's computing infrastructure while providing a way to deploy and distribute assignments, and allowing students greater flexibility as they learn. It yields immediate advantages to traditional on-campus CS courses ...
- 8 Features: The Big Bang Theory of IDEs**
Caspar Boekhoudt
October 2003 Queue, Volume 1 Issue 7
Full text available:  pdf(959.56 KB)  html(35.54 KB) Additional Information: full citation, index terms
- 9 Component-based software development: implications for documentation**
Robin Green
October 1999 Proceedings of the 17th annual international conference on Component-based software development
Full text available:  pdf(695.09 KB) Additional Information: full citation, abstract, citing papers
The progressive shortening of software development cycles has led software vendors to deliver their product to the customer. When a software product is updated every two weeks, only on CD is not a viable alternative. For projects such as IBM VisualAge® for Java, a component-based strategy has been chosen for delivering software function, as well as for delivering product documentation. This paper ...
- Keywords: componentization, help system, navigation
- 10 DROOPI: towards a generic middleware**
Thomas Quinot, Fabrice Kordon, Laurent Pautet
June 2001 ACM SIGAda Ada Letters, Volume XXI Issue 2
Full text available:  pdf(1.34 MB) Additional Information: full citation, abstract, references
This paper presents our work to bridge the Ada 95 Distributed Systems Annex and the Ada 95 Environment facilities. Our project consists in two successive steps. The first one is a translator. The second one aims at the definition of a generic middleware to be able to propose a definition and an architecture of services for a generic middleware, customized according to various criteria ...

11 JAVA IDEs: why and how we use what we do

Barbara Boucher Owens, Rich Pattis, Chris Stephenson, Jack Rehder, Dean Sanc
February 2002 ACM SIGCSE Bulletin , Proceedings of the 33rd SIGCSE technical sy
education, Volume 34 Issue 1

Full text available:  pdf(117.60 KB)

Additional Information: full citation

This panel reflects the experiences of several faculty who each use a different Environment (IDE). Panelists will discuss the salient features of the IDEs that Each panelist will discuss system requirements, ease of installation, strengths pointers for successful adaptation to the classroom.

12 CartaBlanca— a pure-Java, component-based systems simulation to unstructured grids

W. B. VanderHeyden, E. D. Dendy, N. T. Padial-Collins

June 2001 Proceedings of the 2001 joint ACM-ISCOPE conference on Java Gr.

Full text available:  pdf(924.14 KB)

Additional Information: full citation, abstract, references, :

This paper describes a component-based non-linear physical sy package written entirely in Java using object-oriented design to engineers a “developer-friendly” software enviro computational method and physical model development. The se Jacobian-Free Newton-Krylov solution method surrounding a fir conservation equations. This enables a clean component-based

Keywords: Jacobian, Java object oriented, Krylov, Newton, com solver, threads

13 Using Eclipse to demonstrate positive static assurance of Java program co

Aaron Greenhouse, T. J. Halloran, William L. Scherlis

October 2003 Proceedings of the 2003 OOPSLA workshop on eclipse technolog

Full text available:  pdf(375.75 KB)

Additional Information: full citation, abstract, :

Assuring and evolving concurrent programs requires understanding the concu their implementation. Source code often does not reveal these design decisior local manifestations in the code, or because they cannot be inferred from code usually not expressed, and it is therefore generally infeasible to assure that co conditions. We describe a prototype Eclipse- ...

14 Language-specific make technology for the Java programming language

Mikhail Dmitriev

November 2002 ACM SIGPLAN Notices , Proceedings of the 17th ACM SIGPLAN conference on programming, systems, languages, and applications, Volume 37 1

Full text available:  pdf(238.19 KB)

Additional Information: full citation, abstract, references

Keeping the code of a Java application consistent (code is consistent if all of the files are together without errors) prevents late linking errors, and thus may significantly reduce build time. In this paper we describe a make technology for the Java programming language that performs dependency checking, guarantees consistency of the project code, and at the same time reduces source code recompilations to the minimum. After project changes, only the

Keywords: Java, dependency checking, development turnaround time, make

15 Integrating SV systems: Plugging-in visualization: experiences integrating a

Rob Lintern, Jeff Michaud, Margaret-Anne Storey, Xiaomin Wu

June 2003 Proceedings of the 2003 ACM symposium on Software visualization

Full text available:  pdf(839.46 KB)

Additional Information: full citation, abstract, references

The Eclipse platform presents an opportunity to openly collaborate and share with the developer community and with developers. In this paper, we present our own experience integrating SHrimp Views, into this environment. The Eclipse platform's Java Development Environment provides us with invaluable information on software artifacts relieving us from the burden of starting from scratch. This allows us to focus on the development of the application.

Keywords: configuration management and version control, integration, software visualization

16 The joy of teaching with C#

Linda Wilkens

December 2003 The Journal of Computing in Small Colleges, Volume 19 Issue 4

Full text available:  pdf(39.53 KB)

Additional Information: full citation, abstract, references

C# is the language developed by Microsoft to be the lingua franca of the .NET framework. It is a high-level, object-oriented, managed, and cross-platform language. It is a runtime environment supporting both mixed-language and cross-language. It is an intermediate level class-based object oriented language, closer to the framework than Visual Basic. This paper gives hints on getting started with C# and why it is a joy to teach with C#.

17 Emacs: the free software IDE

Charles Curley

June 2002 Linux Journal, Volume 2002 Issue 98

Full text available:  html(23.84 KB)

Additional Information: full citation, abstract, index terms

Not just for text editing--Emacs is the IDE that's been there all along.

18 Penumbra: an Eclipse plugin for introductory programming

Frank Mueller, Antony L. Hosking

October 2003

Proceedings of the 2003 OOPSLA workshop on eclipse technolog

Full text available:  pdf(274.32 KB)

Additional Information: full citation, abstract,

Eclipse is a full-featured and easily extensible integrated development enviro
a large degree of functionality that may be overwhelming to the novice progr
is an environment that students of programming will come to find useful and
with it. The trick is easing them into using Eclipse without them feeling overw
Eclipse plug-in developed at Purdue U ...

19 Object-oriented issues: Adding objects to the traditional ACM programming

Steven K. Andrianoff, Dalton R. Hunkins, David B. Levine

March 2004

Proceedings of the 35th SIGCSE technical symposium on Computer

Full text available:  pdf(182.43 KB)

Additional Information: full citation, abstract, referenc

Programming contests have a long established role as co-curricular activities.
changed, the programming contest problems have not reflected these change
modernize the traditional ACM-style contest while preserving the problem solv
new type of problem that requires that solutions interact with pre-defined clas
change on a contest conducted for high scho ...

Keywords: object-oriented programming, programming contests

20 MJ: a rational module system for Java and its applications

John Corwin, David F. Bacon, David Grove, Chet Murthy

October 2003

ACM SIGPLAN Notices , Proceedings of the 18th ACM SIGPLAN confe
systems, languages, and applications, Volume 38 Issue 11Full text available:  pdf(208.83 KB)

Additional Information: full citation, abstract, referen




While Java provides many software engineering benefits, it lacks a coherent n
packages (which are primarily a name space mechanism) and classloaders (w
large Java applications suffer from unexpected interactions between independ
CLASSPATH definitions, and are often extremely complex to install and maint
system for Java called MJ that is implemented with clas ...

Keywords: Java, components, language design, modularity

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[Initialization Problems for Java - Börger, Schulte \(1999\) \(Correct\)](#)

happened :true. 1 On the other hand IBM's **Visual Age** 1.0 for **Java** running Main on Windows NT or
 Initialization Problems for **Java** Egon Borger 1 Wolfram Schulte 2 1
linux.eecs.umich.edu/5/groups/Ealgebras/javainit.ps.gz

[A Variable Time Step Method For An Age-Dependent Population Model.. - Ayati \(1997\) \(Correct\)](#)

A Variable Time Step Method For An **Age-Dependent** Population Model With Nonlinear
www.cs.uchicago.edu/publications/tech-reports/TR-97-10.ps

[The BeanChannel: Java distributed event model - Kleindienst \(Correct\)](#)

software component that can be manipulated **visually** in a builder tool"The accent on the bean's
 servers (e.g.for services that deals with mobile **agents**)Major focus of the CORBA security framework
 The BeanChannel: **Java** distributed event model Ph.D. Thesis Jan
nenya.ms.mff.cuni.cz/thegroup/phd/phd1006.ps.gz

[Toward Assessing Approaches to Persistence for Java - John Ridgway \(1997\) \(Correct\) \(3 citations\)](#)

in part by the Defense Advanced Research Projects Agency and Texas Instruments, Inc. under Sponsored
 Toward Assessing Approaches to Persistence for **Java** TM John V. E. Ridgway Craig Thrall Jack C.
ftp.cs.umass.edu/pub/techrept/techreport/1997/UJ-CS-1997-063.ps

[A Prototype of FORTRAN-to-Java Converter - Fox, Li, Qiang, Zhigang \(1997\) \(Correct\) \(4 citations\)](#)

A Prototype of FORTRAN-to-**Java** Converter Geoffrey Fox, Xiaoming Li NPAC at
www.npac.syr.edu/projects/javaforse/acmspecissue/finalps/4_fox.ps

[Does Java Have Alternatives? - Franz, Kistler \(Correct\)](#)

Does **Java** Have Alternatives? Michael Franz and Thomas
www.ics.uci.edu/~kistler/css97.ps

[Python and Java: The Best of Both Worlds - Hugunin \(1997\) \(Correct\) \(4 citations\)](#)

Python and **Java**: The Best of Both Worlds Jim Hugunin Corporation
sunsite.informatik.rwth-aachen.de/python/workshops/1997-10/proceedings/hugunin.ps

[Working Memory and Dyslexia - Fawcett, Baddeley \(1992\) \(Correct\)](#)

The data, pooled across consonant complexity for **visual** clarity, are shown in figure 4. Full means and
 to explore the relationships between dyslexia, **age**, phonological performance and working memory. Two
ftp.shel.ac.uk/pub/uni/projects/scp/lrgdocs/lrg913.ps

[Webs of Archived Distributed Computations for Asynchronous.. - Mani Chandy \(1997\) \(Correct\) \(2 citations\)](#)

on a network of workstations at Los Alamos ffl **visualization** engines in the offices of the researchers
 provide a **Java**-based framework for secure Internet **agents** that are mobile, moving state along with the
 and Susser, 1996)ActiveX (Chappell, 1996)and **Java** Beans (**Java** Beans, 1997)Software component
www.cs.caltech.edu/~kinary/projects/papers/Supercomputing/supercomputing.ps

[A Comparison Between Neural Networks and Other Statistical.. - Plate, al. \(1997\) \(Correct\) \(2 citations\)](#)

pp967-973, MIT Press, 1997 Tony Plate BC Cancer Agency 601 West 10th Ave, Epidemiology Vancouver BC
www.mcs.vuw.ac.nz/~tap/papers/nips96.ps.gz

[Using Java for the Coordination of Workflows in the World Wide.. - Weber, Illmann \(Correct\)](#)

will also include the development of a **Java**-based, **visual** and object-oriented process flow editor, which
 and also in dedicated environments the paradigm of **agent**-based distributed systems is evolving. **Agents**
 Using **Java** for the Coordination of Workflows in the World
www-vs.informatik.uni-ulm.de/Papers/interaktion/interaktion.ps

[OCB: An Object/Class Browser for Java - Graham Kirby \(Correct\)](#)

also be useful as part of a symbolic debugging or **visualisation** tool. 1 Introduction The provision of

class Person implements Cloneable {private int age public String name public Address address
 OCB: An Object/Class Browser for Java Graham N.C. Kirby and Ron Morrison School of
www.sunlabs.com/research/forest/pjw2/COM.Sun.Labs.Forest.PJava.PJW2.2__ps.ps

Stellar Ages Using the Chromospheric Activity of Field Binary.. - Robert Donahue (Correct)
 eds. R. A. Donahue and J. A. Bookbinder **Stellar Ages Using the Chromospheric Activity of Field Binary**
www.mtwilson.edu/MWO/Science/HTK_Project/Preprints/binage.ps.gz

Pizza into Java: Translating theory into practice - Odersky (1997) (Correct) (157 citations)
Pizza into Java: Translating theory into practice Martin Odersky
cm.bell-labs.com/cm/cs/who/wadler/topics/...papers/pizza/pizza.ps.gz

JaDE: Access Control in a Java-Based Object Database - Jones Winslett (1995) (Correct) (1 citation)
 fvjones.winslettg@cs.uiuc.edu Abstract In this age of increased networking of computers and larger
JaDE: Access Control in a Java-Based Object Database V. E. Jones M. Winslett
drl.cs.uiuc.edu/security/...pubs/ooowkshop.ps

Java is Type Safe - Probably - Drossopoulou, Eisenbach (1997) (Correct) (39 citations)
Java is Type Safe -Probably Sophia Drossopoulou and
src.doc.ic.ac.uk/public/ic.doc/ALA/papers/S.Drossopoulou/JavaSoundEcoop.ps.gz

Designing Conversational Interfaces With Multimodal.. - Bers, Miller, Makhoul (Correct)
 from pen and speech, the production of audio and **visual** feedback, and the management of multimodal
 supported by the Defense Advanced Research Projects Agency under contract DABT63-94-C-0061. Thanks to
 modular reusable components and a simple **Java**-based interface. This paper briefly describes the
www.nist.gov/speech/proc/darpa98/ps/demo10.ps

OMNIS/Myriad on its Way to a Full Hypermedia.. - Kowarschick, Roth.. (Correct)
 if possible, be described in more natural audio-**visual** ways. Further possible improvements are discussed
 Although we are living in the "information age"where access to huge amounts of data is not
 the fulltext database system Myriad, and provides **archiving**, disclosing, and searching functions at
www3.informatik.tu-muenchen.de/~kowa/public/papers/EITC94.ps.gz

nlme: Mixed-effects Methods and Classes for - Plus Mixed-Effects (Correct)
 pituitary to the pteryomaxillary fissure made at **ages 8, 10, 12, and 14 years** on 16 boys and 11 girls. A
nlme.stat.wisc.edu/U__Guide.ps

A Model for Transparent Distribution using Java - Milton (1997) (Correct)
A Model for Transparent Distribution using Java Scott Milton Department of Computer Science
www.sd.monash.edu.au/research/publications/1997/TR97-14.ps

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11 Departments: Toolkit: Eclipse: A Platform Becomes an Open-Source Wooc

Alexander Wolfe

November 2003

Queue, Volume 1 Issue 8

Full text available:  pdf(356.62 KB)  html(10.62 KB)

Additional Information: full citation, index term

12 At the forge: introducing Enhydra

Reuven Lerner

September 2001

Linux Journal, Volume 2001 Issue 89

Full text available:  html(24.82 KB) Additional Information: full citation, index terms

13 OOPtutor: a CBL system for introductory object-oriented programming

J. Helene Gelderblom

June 2000

ACM SIGCSE Bulletin, Volume 32 Issue 2

Full text available:  pdf(713.96 KB)

Additional Information: full citation, abstract,

The author developed OOPtutor, a prototype of a system that teaches entry level Java. It uses a simple world of dogs to introduce the important object-oriented and inheritance. The prototype was implemented as a set of object-oriented C authoring functions. This article gives a brief description of the OOPtutor prototype.

14 HydroJ: object-oriented pattern matching for evolvable distributed systems

Keunwoo Lee, Anthony LaMarca, Craig Chambers

October 2003 ACM SIGPLAN Notices , Proceedings of the 18th ACM SIGPLAN conference on programming languages, systems, languages, and applications, Volume 38 Issue 11

Full text available:  pdf(311.06 KB)

Additional Information: full citation, abstract, references

In an evolving software system, components must be able to change independently of their peers. One obstacle to independent evolution is the *brittle parameter problem*: a component that communicates can depend on a number of *inessential* details of the types, structures, and data communicated. If these details change, then the components can no longer communicate. The message remains ...

Keywords: HydroJ, XML, distributed systems, dynamic dispatch, object-oriented programming, semi-structured data, software evolution, ubiquitous computing

15 New products

February 2000

Linux Journal


Full text available:  html(9.74 KB) Additional Information: full citation, index terms

16 Technical papers: software presentation: Towards large-scale information i

Kenneth M. Anderson, Susanne A. Sherba, William V. Lephien

May 2002

Proceedings of the 24th international conference on Software engin

Full text available:  pdf(1.46 MB)

Additional Information: full citation, abstract, references, cit

Software engineers confront many challenges during software development. C relationships that exist between software artifacts. We refer to this task as inf a relationship between documents typically implies that an engineer must inte documents to perform a development task. In the past, we have applied open to address this challenge. We now extend this work ...

17 Internet nuggets: Internet nuggets

Mark Thorson

September 2002

ACM SIGARCH Computer Architecture News, Volume 30 Issue 4

Full text available:  pdf(617.72 KB)

Additional Information: full citation

18 Impact of economics on compiler optimization

Arch D. Robison

June 2001

Proceedings of the 2001 joint ACM-ISCOPE conference on Java Gr

Full text available:  pdf(764.92 KB)

Additional Information: full citation, abstract, references,

Compile-time program optimizations are similar to poetry: mor published in commercial compilers. Hard economic reality is th have too narrow an audience to justify their cost in a general-p compilers are too expensive to write. An alternative is to allow compile-time optimizations. This has already happened acciden in the form of template ...


Keywords: compilers, economics, optimization

19 Papers: MoCCA: a mobile communication and computing architecture

Asim Smailagic, Dan Siewiorek, Bob Iannucci, Anton Dahbura, Len Bass

October 1999

ACM SIGMOBILE Mobile Computing and Communications Review,

Full text available:  pdf(1.27 MB)

Additional Information: full citation, abstract, re


The Mobile Communication and Computing Architecture (MoCCA) was built to engineers to collaborate autonomously and perform their activities in an on-th no physical contact among the members of a group of geographically distribut to share/build corporate memory. The challenge was to provide a system that and advice from other FSEs while on custome ...

20 Compus: visualization and analysis of structured documents for understand

Jean-Daniel Fekete, Nicole Dufournaud

June 2000

Proceedings of the fifth ACM conference on Digital libraries

Full text available:  pdf (1.76 MB)

Additional Information: full citation, abstract, references, cit

This article describes the Compus visualization system that assists in the exploration of document corpora encoded in XML. Compus has been developed for and applied to the letters of the 16th century, transcribed and encoded for scholarly analysis using the Text Encoding Initiative. By providing a synoptic visualization of a corpus and allowing various transformations, Compus ...




Keywords: SGML, TEI, XML, XSL, computers and the humanities, history, information science, documents, visual data mining

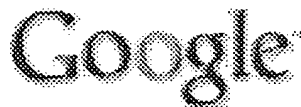
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Understanding the Manifest

... for each file contained in the archive, including the ... In the manifest above, for example, the first Name ... are the digest values for the file java/math/BigDecimal ...
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... requires Main-Class manifest header), java -jar app.jar. To invoke an applet packaged as a JAR file, <applet code=AppletClassName.class
 archive="JarFileName.jar ...

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... sounds) are combined into a single archive, they may be downloaded by a java agent (like a ... files for the jar tool are: manifest file (optional); destination ...

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... to specify the name of the jar archive first, followed ... it is easy to view and process manifest-file contents. Beginning with version 1.3 of the Java 2 SDK, the ...

[babbage.ciarku.edu/java/docs/tooldocs/solaris/jar.html](#) - 14k - [Cached](#) - [Similar pages](#)

Java archive

... As well as archiving and compressing the Java class files, it also inserts a "manifest" file which can contain information about the class files, such as a ...

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jar-The Java Archive Tool

... so it is easy to view and process manifest-file contents ... tool to operate on Jar files and Jar file manifests are ... below and in the Jar trail of the Java Tutorial ...

[remus.rutgers.edu/~mcgrew/Java-Docs/jdk1.2.2/docs/tooldocs/solaris/jar.html](#) - 9k -

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Exploring the Java Archive (JAR) Format

... files that already exist in our archive will be ... Specifying the Application Entry Point using the JAR File Manifest. You can execute a Java class directly from a ...

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Java Tip 120: Execute self-extracting JARs

... format's use with various conventions so that you can pack Java classes into an archive file. With the addition of the JAR manifest file, the Java runtime can ...

[www.javaworld.com/javaworld/javatips/jw-javatip120.html](#) - [Similar pages](#)

Understanding the Manifest


... can be only one manifest file in an archive, and it ... is created with version 1.2 of the Java TM Development Kit, the default manifest file is very ...

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Computer Dictionary Definition of Java archive

... As well as archiving and compressing the Java class files it also inserts a "manifest" file which can contain information about the class files such as a ...

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1 Compressing Java class files

William Pugh

May 1999 ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1999 conference and implementation, Volume 34 Issue 5

Full text available: pdf(1.44 MB)

Additional Information: full citation, abstract, references, ci

Java class files are often distributed as jar files, which are collections of individual files (possibly other files). Jar files are typically about 1/2 the size of the original files. We developed a wire-code format for collections of Java class files. This format is a corresponding compressed jar file (1/4 to 1/10 the size of the original class file).

2 The Java programming language: Transparent Java standard extensions with multiple platforms

Pierre A. I. Wijkman, Mitra Wijkman, Suru Dissanaike

June 2003 Proceedings of the 2nd international conference on Principles and practice of declarative programming

Full text available: pdf(69.12 KB)

Additional Information: full citation, abstract, reference

Java programs that utilize standard extensions with native libraries are problematic. We present general methods that make such programs runnable on multiple platforms transparent to the user. We show a detailed example for standalone applications with a specific such standard extension.

Keywords: Java, multiple platforms, native libraries

3 SQLJ Part 1: SQL routines using the Java programming language

Andrew Eisenberg, Jim Melton

December 1999

ACM SIGMOD Record, Volume 28 Issue 4

Full text available:  pdf(471.27 KB)

Additional Information: full citation, index terms

4 Compact Java binaries for embedded systems

Derek Rayside, Evan Mamas, Erik Hons

November 1999

Proceedings of the 1999 conference of the Centre for Advanced S

Full text available:  pdf(124.35 KB)

Additional Information: full citation, abstract, references,

Embedded systems bring special purpose computing power to consumer electri
players and pagers. Java is being aggressively targeted at such systems with
Micro Edition, which introduces certain efficiency optimizations to the Java Vir
been identified as an important future goal for ensuring Java's success on emi
processing power and timing constraints ...

5 A unified component framework for dynamically extensible virtual environm

Andrzej Kapolka, Don McGregor, Michael Capps

September 2002

Proceedings of the 4th international conference on Collaborativ

Full text available:  pdf(129.03 KB)

Additional Information: full citation, abstract, references,

If large-scale shared virtual worlds are to be established on the Internet, they
allow them to adapt, scale, and evolve continuously-that is, without their beir
designing NPSNET-V, an architecture intended to satisfy these criteria throug
extensibility, the authors recognized the need for a consistent, unified compor
they implemented in Java™, allows one to const ...



Keywords: Java, XML, component-based architectures, dynamic extensibility,

6 Developing and integrating enterprise components and services: Overcomi challenges

Erik Meijer, Clemens Szyperski





October 2002

Communications of the ACM, Volume 45 Issue 10

Full text available:  pdf(108.72 KB)  html(36.43 KB)

Additional Information: full citation, abstract, re

Independent extensibility requires a strong handle on versioning through prec



- 7 Technical papers: dynamic program analysis: Tracking down software bugs**
Sudheendra Hangal, Monica S. Lam
May 2002 Proceedings of the 24th international conference on Software engir
Full text available:  pdf (1.30 MB) Additional Information: full citation, abstract, references, ci
This paper introduces DIDUCE, a practical and effective tool that aids program errors and identifying their root causes. By instrumenting a program and obse dynamically formulates hypotheses of invariants obeyed by the program. DIDI at the beginning, and gradually relaxes the hypothesis as violations are detec violations reported help users to catch soft ...
- 8 Fast detection of communication patterns in distributed executions**
Thomas Kunz, Michiel F. H. Seuren
November 1997 Proceedings of the 1997 conference of the Centre for Advanced S
Full text available:  pdf (4.21 MB) Additional Information: full citation, abstract, references
Understanding distributed applications is a tedious and difficult task. Visualiza are often used to obtain a better understanding of the execution of the applica Poet, an event tracer developed at the University of Waterloo. However, these do not provide the user with the desired overview of the application. In our ex occurrences of non-trivial commun ...
- 9 Extending document management systems with user-specific active proper**
Paul Dourish, W. Keith Edwards, Anthony LaMarca, John Lamping, Karin Peterse
James Thornton
April 2000 ACM Transactions on Information Systems (TOIS), Volume 18 Iss
Full text available:  pdf (166.43 KB) Additional Information: full citation, abstract, references,
Document properties are a compelling infrastructure on which to develop docu property-based approach avoids many of the problems of traditional heierarch document organizations meaningful to user tasks, provides a means to integr individuals and groups, and does this all within a uniform interaction framewo only categorizations of documents and document use ...
- Keywords: active properties, component software, document management sys experience
- 10 Enforcing high-level protocols in low-level software**
Robert DeLine, Manuel Fähndrich
May 2001 ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2001 confere and implementation, Volume 36 Issue 5
Full text available:  pdf (1.34 MB) Additional Information: full citation, references, citings

11 Technical opinion: Will UML 2.0 be agile or awkward?

Cris Kobryn

January 2002

Communications of the ACM, Volume 45 Issue 1

Full text available:  pdf(73.19 KB)  html(16.24 KB)

Additional Information: full citation, abstract

The UML sits at an architectural crossroad. Will UML 2.0 resolve the problems dreaded second-language syndrome?

12 Extensible job managers for grid computing

Paul D. Coddington, Lici Lu, Darren Webb, Andrew L. Wendelborn

February 2003 Proceedings of the twenty-sixth Australasian computer science conference practice in information technology - Volume 16

Full text available:  pdf(293.64 KB)

Additional Information: full citation, abstract, references

Grid computing is becoming an important framework for enabling applications of computational and data resources, however current grid software is still immature. Globus Grid Toolkit is a set of low-level tools, protocols and services that has computing infrastructure. The Globus Resource Allocation and Management (GRAM) manages and remote execution of job ...

Keywords: Java, cluster management systems, grid computing

13 A language development environment for Eclipse

M. G. J. van den Brand, H. A. de Jong, P. Klint, A. T. Kooiker

October 2003

Proceedings of the 2003 OOPSLA workshop on eclipse technology

Full text available:  pdf(426.23 KB)


Additional Information: full citation, abstract, references

The ASF+SDF Meta-Environment provides a collection of tools for the generation of language development environments. We show how Eclipse can be extended with these generic language tools. By integrating the Meta-Environment with Eclipse using TOOLBUS technology, we demonstrate the development of language development software in Eclipse. By doing so, we create an experimentation framework for research. We describe our experiences and sketch future ...

14 Density-based indexing for approximate nearest-neighbor queries

Kristin P. Bennett, Usama Fayyad, Dan Geiger

August 1999 Proceedings of the fifth ACM SIGKDD international conference on Knowledge discovery and data mining


Full text available:  pdf(1.29 MB)

Additional Information: full citation, references, citations, keywords

15 Back matter

ACM SIGSOFT Software Engineering Notes staff

May 2003 ACM SIGSOFT Software Engineering Notes, Volume 28 Issue 3

Full text available:  pdf(2.77 MB)

Additional Information: full citation

16 JAZZ: an efficient compressed format for Java archive files

Quetzalcoatl Bradley, R. Nigel Horspool, Jan Vitek

November 1998 Proceedings of the 1998 conference of the Centre for Advanced S

Full text available:  pdf(73.54 KB)


Additional Information: full citation, abstract, reference

The Jazz file format is intended to be a replacement for the JAR file format with Java programs. A Jazz file is compressed to a degree that far exceeds what is of the Jazz format permits faster transmission speeds over a network and has storage. The compression is achieved as a combination of different data comp characteristics of collectio ...

17 Type elaboration and subtype completion for Java bytecode

Todd B. Knoblock, Jakob Rehof

January 2000 Proceedings of the 27th ACM SIGPLAN-SIGACT symposium on Princ

Full text available:  pdf(1.48 MB)

Additional Information: full citation, abstract, references, ci

Java source code is strongly typed, but the translation from Java source to by information originally contained within methods. Type elaboration is a techniq programs from incompletely typed bytecode by inferring types for local variab technically, there are not enough types in the original type hierarchy to type a is a technique for adding necessa ...

18 Fast integrated tools for circuit design with FPGAs

Stephan W. Gehring, Stefan H.-M. Ludwig

March 1998 Proceedings of the 1998 ACM/SIGDA sixth international symposium (

Full text available:  pdf(885.33 KB)

Additional Information: full citation, abstract, references,


To implement high-density and high-speed FPGA circuits, designers need tight process. However, current design tools are unsuited for this purpose as they lack interactiveness, and integration. We present a system for the Xilinx XC6200 F consists of a suite of tightly integrated tools for the XC6200 architecture cent tool framework. The system lets the de ...

19 Aspects of applicative programming for file systems (Preliminary Version)

Daniel P. Friedman, David S. Wise

March 1977 Proceedings of an ACM conference on Language design for reliable so

3

Full text available:  pdf(1.47 MB)

Additional Information: full citation, abstract, references, ci


This paper develops the implications of recent results in semantics for applica evaluation (call-by-need) to the arguments of file construction functions resul computation and output. The programmer need not participate in the determini evaluation of his program. Problems concerning multiple input and multiple ou behavior is illustrated with an exam ...

Keywords: Functional combination, Real time, Recursive programming, Refere Suspension, Text editor

20 Manifest types, modules, and separate compilation

Xavier Leroy

February 1994 Proceedings of the 21st ACM SIGPLAN-SIGACT symposium on Principles of Programming Languages

Full text available:  pdf (1.50 MB)

Additional Information: full citation, abstract, references, citing




This paper presents a variant of the SML module system that introduces a strict and manifest types (types whose definitions are part of the module specification) to increase the expressive power of the SML module system. The resulting module system provides separate compilation.

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